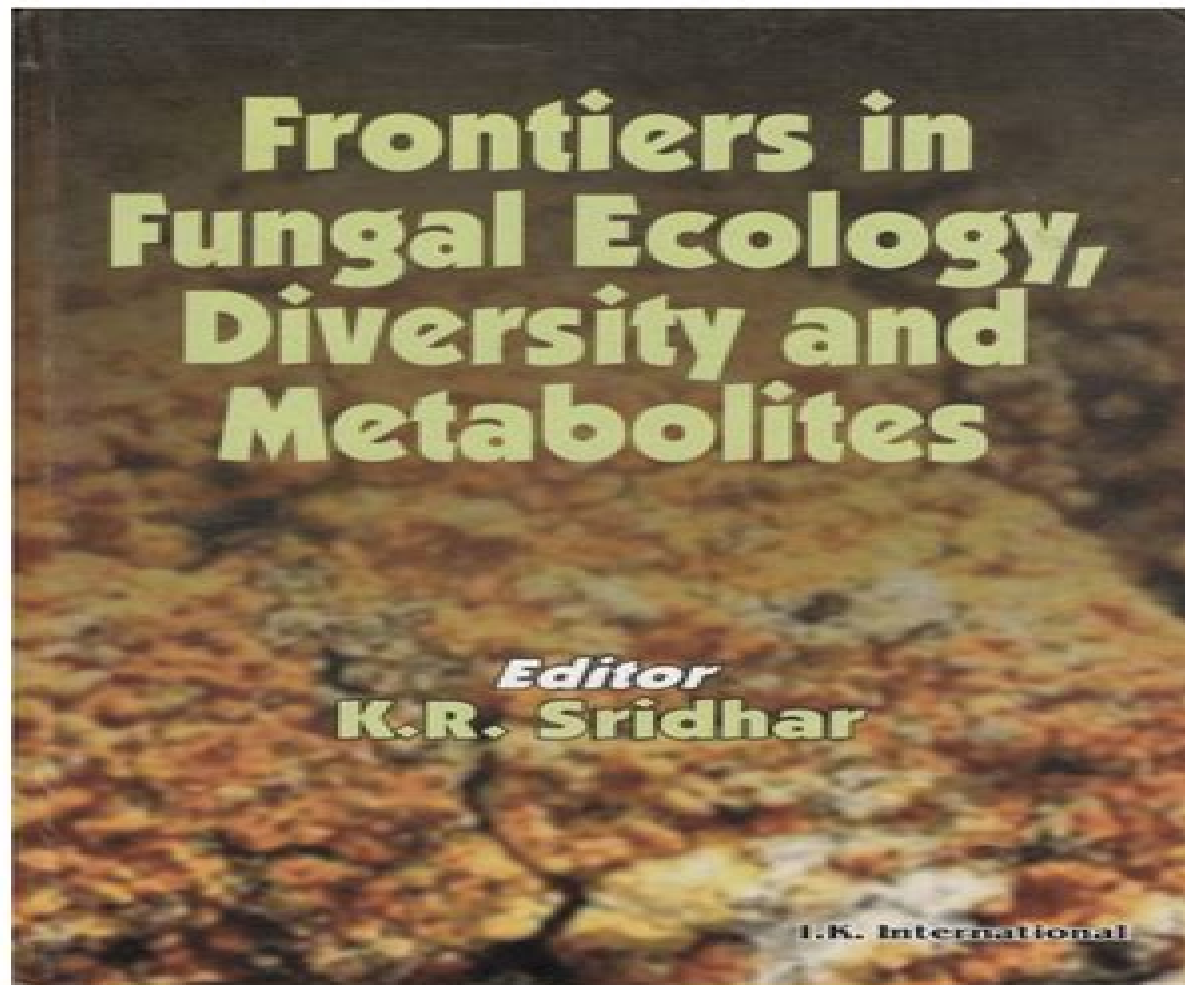


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Frontiers In Fungal Ecology Diversity And Metabolites

**Kandikere R. Sridhar, Sunil Kumar
Deshmukh**



Frontiers In Fungal Ecology Diversity And Metabolites:

Frontiers in Fungal Ecology, Diversity and Metabolites K. R. Sridhar, 2009 Mycology is a frontier area of research in life sciences Fungi represent one of the three major evolutionary segments along with plants and animals Fungal multidimensional features with basic and applied value projected their potential beyond routine systematics diversity and environmental studies In view of tremendous developments in the field of Mycology the present treatise emphasizes various aspects of contemporary issues in mycology It comprises 22 chapters with emphasis on the fungal ecology diversity and metabolites The topics treated include aquatic ecology diversity and phylogeny mutualism and interactions potential metabolites pathology and toxins fungal infections and prevention cell permeabilization and advances in monocarboxylate transporters in yeasts with an emphasis on cancer therapy This volume is of special interest to mycologists as a valuable source of information on the frontier areas of mycology dealing with diversity ecological amplitudes methods of assessment novel metabolites and bioprospecting avenues Fungal diversity, ecology and control management Vijay Rani Rajpal, Ishwar Singh, Shrishail S. Navi, 2022-06-02 This edited volume provides comprehensive and latest information on the fungal biodiversity in its morphological characters bioactive molecules pathogenicity and virulence and its impacts on crop production and sustainable management of agricultural productivity towards resolving global food security issues The increasing number of infectious fungal diseases are regarded as threats to agricultural productivity and global food security The efforts done by scientists to inventories the fungal diversity and identification of fungal species contributing as pathogens towards many plant and human diseases have been compiled in the present volume The identification of the potential fungal pathogens is a prerequisite for an effective disease control management program Also important is to understand the complex interactions between the host pathogen and the environment The book dwells on insights on the aforementioned aspects The book also includes articles on ecological significance of fungi and fungal antagonists used as biocontrol agents on other pathogens This compilation is useful to scientists working in similar areas as well as to undergraduate and graduate students keen on getting updated information on the subject Scientists involved in agricultural research crop management and industries that manufacture agrochemicals may also find it useful read *Progress in Mycology* Tulasi Satyanarayana, Sunil Kumar Deshmukh, Mukund V. Deshpande, 2021-08-20 Indian mycologists have extensively studied various groups of fungi such as soil fungi aquatic fungi marine fungi endophytic fungi fungi associated with man and animals Though several books on various aspects of fungi are published this is the first account of the history and developments in mycology in India It discusses at length various stages of development of mycology including both classical and biotechnological aspects It begins with a historical account of Indian mycology followed by a description of research on fossil fungi Further chapters cover the latest updates on different taxonomic groups of fungi A dedicated section describes the roles and applications of fungal endophytes The book also includes research in other important areas such as

mushrooms and wood rotting fungi Different chapters are written by leading mycologists This book is useful to students teachers and researchers in botany microbiology biotechnology and life sciences agriculture and industries using fungi to produce various valuable products

Molecular Approaches for the Detection of Fungal Phytopathogens Deepa Nagaraju,Sreenivasa Marikunte Yanjarappa,Charith Raj Adkar Purushothama,2025-04-23 This book discusses recent advancements and updates in the molecular diagnostics of fungal phytopathogens The techniques covered in the seventeen chapters help in understanding the importance of early detection of fungal pathogens and their toxins in both post and pre harvest stages of crop production Molecular Approaches for the Detection of Fungal Phytopathogens describes the fungal identification and isolation from different sources such as food feed and cereals using molecular approaches These include variants of polymerase chain reaction PCR involving generic genus and species and gene specific primers RNA sequence based next generation sequences microarrays serial analysis of gene expression fluorescence in situ hybridization loop mediated isothermal amplification macroarrays PCR denaturing gradient gel electrophoresis magnetic capture hybridization PCR nanotechnology and immunoassays providing faster and more sensitive approaches than traditional methods that overcome challenges by developing novel disease control strategies Features Explores various diagnostic strategies for phytopathogens Discusses early detection methods when fungal spores are low or there are no visible symptoms Provides a historical perspective and compares the traditional methods of detection with the current molecular techniques Describes details of the protocol of every technique mentioned Covers point of care testing for fungal pathogens and quality assurance for molecular testing in plant health

Fungal Reproduction and Growth Sadia Sultan,Gurmeet Kaur Surindar Singh,2022-05-25 One of the largest and most diverse kingdoms in eukaryotes is fungi which consists of approximately 2 2 3 8 million species This book provides readers with an in depth understanding of fungi diversity and the role of fungi in the ecosystem Chapters address such topics as fungi reproduction and pathology fungal mycotoxicity fungi mating mechanisms and much more

Fungal Ecology, Diversity and Metabolites Zaid Hays & Danny Watson,2019-11-04 Mycology is a frontier area of research in life sciences Fungi represent one of the three major evolutionary segments along with plants and animals Fungal multidimensional features with basic and applied value projected their potential beyond routine systematics diversity and environmental studies In view of tremendous developments in the field of Mycology the present treatise emphasizes various aspects of contemporary issues in mycology It comprises 22 chapters with emphasis on the fungal ecology diversity and metabolites The topics treated include aquatic ecology diversity and phylogeny mutualism and interactions potential metabolites pathology and toxins fungal infections and prevention cell permeabilization and advances in monocarboxylate transporters in yeasts with an emphasis on cancer therapy This volume is of special interest to mycologists as a valuable source of information on the frontier areas of mycology dealing with diversity ecological amplitudes methods of assessment novel metabolites and bioprospecting avenues

Recent Developments on Genus Chaetomium Ahmed M.

Abdel-Azeem,2019-12-27 Chaetomium genus was established by Gustav Kunze in 1817 According to Index Fungorum Partnership there are 273 Chaetomium species accepted till now Members of the genus Chaetomium are capable of colonizing various substrates and are well known for their ability to degrade cellulose and to produce a variety of bioactive metabolites More than 200 compounds have been reported from this genus A huge number of new and bioactive secondary metabolites associated with unique and diverse structural types such as chaetoglobosins epipolythiodioxopiperazines azaphilones depsidones xanthones anthraquinones chromones and steroids have been isolated and identified Many of the compounds have been reported to possess significant biological activities such as antitumor antimalarial cytotoxic enzyme inhibitory antimicrobial phytotoxic antirheumatoid and other activities Chaetomium taxa are frequently reported to be cellulase and ligninase producers with the ability to degrade cellulosic and woody materials This is the first comprehensive volume covering Chaetomium genus in detail It includes the latest research methods and applications and was written by scholars working directly in the field The book also contains informative illustrations and is fully referenced for further reading

Freshwater Fungi E. B. Gareth Jones,Kevin D Hyde,Ka-Lai Pang,2014-08-27 The available literature on freshwater fungi is limited Over the subsequent years a considerable volume of scientific papers have appeared scattered throughout numerous journals There is therefore no recent synthesis of the subject and this is the objective of the proposed book Freshwater habitats are rich in fungi with some 3 000 described species most of papers focussing on their identification substrata they grow on and world distribution However these fungi play an important role in the freshwater ecosystem and are primarily involved in the breakdown of leaf litter contributing food for detritus feeders Our book will bring together a wide range of acclaimed mycologists to review recent developments on the biology and ecology of freshwater fungi particularly their molecular phylogeny biodiversity causative diseases of freshwater amphibians fishes and invertebrate animals decomposition of leaf litter stream pollution and their potential role in bioremediation

Marine Fungi E. B. Gareth Jones,Ka-Lai Pang,2012-08-31 Marine fungi play a major role in marine and mangrove ecosystems Understanding how higher fungi with their spectrum of cellulolytic and ligninolytic enzymes degrade wood tissue while labyrinthuloids and thraustochytrids further contribute to the dissolved organic matter entering the open ocean is essential to marine ecology This work provides an overview of marine fungi including morphology and ultrastructure phylogeny biogeography and biodiversity Increasingly biotechnology is also turning to these organisms to develop new bioactive compounds and to address problems such as decomposition of materials in the ocean and bioremediation of oil spills These potential applications of marine fungi are also treated In the light of massive marine oil spills in the past years the importance of understanding marine fungi and their role in the food chain cannot be underestimated

Industrially Important Fungi for Sustainable Development Ahmed M. Abdel-Azeem,Ajar Nath Yadav,Neelam Yadav,Zeba Usmani,2021-06-18 Fungi are an understudied biotechnologically valuable group of organisms Due to their immense range of habitats and the consequent

need to compete against a diverse array of other fungi bacteria and animals fungi have developed numerous survival mechanisms However besides their major basic positive role in the cycling of minerals organic matter and mobilizing insoluble nutrients fungi have other beneficial impacts they are considered good sources of food and active agents for a number of industrial processes involving fermentation mechanisms as in the bread wine and beer industry A number of fungi also produce biologically important metabolites such as enzymes vitamins antibiotics and several products of important pharmaceutical use still others are involved in the production of single cell proteins The economic value of these marked positive activities has been estimated as approximating to trillions of US dollars The unique attributes of fungi thus herald great promise for their application in biotechnology and industry Since ancient Egyptians mentioned in their medical prescriptions how they can use green molds in curing wounds as the obvious historical uses of penicillin fungi can be grown with relative ease making production at scale viable The search for fungal biodiversity and the construction of a living fungi collection both have incredible economic potential in locating organisms with novel industrial uses that will lead to novel products Fungi have provided the world with penicillin lovastatin and other globally significant medicines and they remain an untapped resource with enormous industrial potential Volume 1 of Industrially Important Fungi for Sustainable Development provides an overview to understanding fungal diversity from diverse habitats and their industrial application for future sustainability It encompasses current advanced knowledge of fungal communities and their potential biotechnological applications in industry and allied sectors The book will be useful to scientists researchers and students of microbiology biotechnology agriculture molecular biology and environmental biology Antibacterial Drug Discovery to Combat MDR Iqbal Ahmad, Shamim Ahmad, Kendra P. Rumbaugh, 2019-11-09 This book compiles the latest information in the field of antibacterial discovery especially with regard to the looming threat of multi drug resistance The respective chapters highlight the discovery of new antibacterial and anti infective compounds derived from microbes plants and other natural sources The potential applications of nanotechnology to the fields of antibacterial discovery and drug delivery are also discussed and one section of the book is dedicated to the use of computational tools and metagenomics in antibiotic drug discovery Techniques for efficient drug delivery are also covered The book provides a comprehensive overview of the progress made in both antibacterial discovery and delivery making it a valuable resource for academic researchers as well as those working in the pharmaceutical industry *Advances in Macrofungi* Kandikere R. Sridhar, Sunil Kumar Deshmukh, 2021-09-17 Large scale cultivation of macrofungi is possible with fermentation using easily accessible lignocellulosic agricultural residues utilising economical methods to generate substantial biomass food and biofuels Bioconversion of lignocellulosic wastes by macrofungi generates value added fungal nutritional biomass for humans and livestock Besides commercial cultivation techniques other topics covered include healing potential of mushrooms industrial opportunities mycelium based products forest wild mushrooms and industrial applications of white rot fungi This book

addresses the various applications of macrofungi It encourages readers to explore non conventional sources of nutrition as well as bioactive metabolites to serve as nutraceuticals The volume emphasizes the significance of macrofungi as source of bioactive compounds to remedy human lifestyle diseases especially cancers and cardiovascular ailments along with immunostimulation potential by Cordyceps This book also emphasises on the role of mushrooms as a source of cosmeceuticals source of flavors essence scents and perfumes

Sustainability Challenges in the Agrofood Sector Rajeev Bhat,2017-02-08 Sustainability Challenges in the Agrofood Sector covers a wide range of agrofood related concerns including urban and rural agriculture and livelihoods water energy management food and environmental policies diet and human health Significant and relevant research topics highlighting the most recent updates will be covered with contributions from leading experts currently based in academia government bodies and NGOs see list of contributors below Chapters will address the realities of sustainable agrofood the issues and challenges at stake and will propose and discuss novel approaches to these issues This book will be the most up to date and complete work yet published on the topic with new and hot topics covered as well as the core aspects and challenges of agrofood sustainability

Aquatic Dicotyledons of North America Donald H. Les,2017-09-01 Aquatic Dicotyledons of North America Ecology Life History and Systematics brings together a wealth of information on the natural history ecology and systematics of North American aquatic plants Most books on aquatic plants have a taxonomic focus and are intended primarily for identification Instead this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature herbarium databases and other reference materials Included dicotyledon species are those having an obligate OBL wetland status a designation used in the USACE National Wetland Plant List Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships This diverse assemblage of information will be useful to a wide range of interests including academic researchers wildlife managers students and virtually anyone interested in the natural history of aquatic and wetland plants Although focusing specifically on North America the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well This book is an essential resource for assisting with wetland delineation

Diseases of Forest Trees and their Management S. Parthasarathy,G. Thiribhuvanamala,P. Muthulakshmi,K. Angappan,2021-04-25 The book is intended to provide comprehensive introduction to the important aspects of the field of forest pathology and tree diseases The book is arranged in two major parts The fundamental chapters present forest diseases pathogens epidemics and management that is applicable to all forest trees The applied chapters on the individual crops that are grouped alphabetically present information on the symptoms pathogen and integrated management of major diseases of forest trees It was designed to give a broad overview of the field of forest pathology but with sufficient detail that they will be able to assess their specific role as practicing forestry professionals Note

T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka *Practical Food Safety* Rajeev Bhat,Vicente M. Gómez-López,2014-03-31 The past few years have witnessed an upsurge in incidences relating to food safety issues which are all attributed to different factors Today with the increase in knowledge and available databases on food safety issues the world is witnessing tremendous efforts towards the development of new economical and environmentally friendly techniques for maintaining the quality of perishable foods and agro based commodities The intensification of food safety concerns reflects a major global awareness of foods in world trade Several recommendations have been put forward by various world governing bodies and committees to solve food safety issues which are all mainly targeted at benefiting consumers In addition economic losses and instability to a particular nation or region caused by food safety issues can be huge Various non dependent risk factors can be involved with regard to food safety in a wide range of food commodities such as fresh fruits vegetables seafood poultry meat and meat products Additionally food safety issues involves a wide array of issues including processed foods packaging post harvest preservation microbial growth and spoilage food poisoning handling at the manufacturing units food additives presence of banned chemicals and drugs and more Rapid change in climatic conditions is also playing a pivotal role with regard to food safety issues and increasing the anxiety about our ability to feed the world safely *Practical Food Safety Contemporary Issues and Future Directions* takes a multi faceted approach to the subject of food safety covering various aspects ranging from microbiological to chemical issues and from basic knowledge to future perspectives This is a book exclusively designed to simultaneously encourage consideration of the present knowledge and future possibilities of food safety This book also covers the classic topics required for all books on food safety and encompasses the most recent updates in the field Leading researchers have addressed new issues and have put forth novel research findings that will affect the world in the future and suggesting how these should be faced This book will be useful for researchers engaged in the field of food science and food safety food industry personnel engaged in safety aspects and governmental and non governmental agencies involved in establishing guidelines towards establishing safety measures for food and agricultural commodities **Antimicrobial Peptides** K. Sreejith,K. Ajesh,2022-11-23 *Antimicrobial Peptides Challenges and Future Perspectives* covers the latest developments about antimicrobial peptides in the scenario of drug resistance The book is divided into 16 chapters arranged in sequence and preceded by chapters on historical developments and their role as regulatory molecules in innate defense mechanism Emphasis is given to purification techniques and characterization suitable for interdisciplinary research Chapters provide an inventory of various antimicrobial peptides from a diverse array of organisms such as bacteria fungi insects amphibians plants and mammals A section on marine ecosystem broadens readers understanding on marine based antimicrobial peptides Additional sections provide an informative overview on peptides with antiviral properties and those targeting multi drug resistant bacteria Recent reports and mechanism on resistance against antimicrobial peptides are also provided along with key insights into the challenges

and future perspectives of peptide drug development Emphasizes antimicrobial peptides targeting various human viruses and multidrug resistant bacteria Written by internationally recognized experts who provide readers with a wide and useful perspective Provides in depth resources for undertaking a research work in antimicrobial peptides with the inclusion of chapters on purification techniques and structural details Addresses the possibility and availability of peptide antibiotics in the global drug market Serves as a complete resource from the discovery to drug development of peptide antibiotics

Symbiotic Association of Microorganisms with Medicinal and Herbal Plants Allah Ditta,Sajid Mehmood,Azamal Husen,2024-12-19 Research establishes that symbiotic association of microbes with medicinal and herbal plants enhance the growth and accumulation of bioactive materials and that species of microbes including bacterial and fungal species play a key role Symbiotic Association of Microorganisms with Medicinal and Herbal Plants identifies the important symbiotic association between microbes and medicinal plants including perspectives in improving bioactive ingredients for the synthesis and preparation of pharmaceutical drugs Features Provides a comprehensive overview of symbiotic association of microorganisms with medicinal and herbal plants Discusses the impacts of symbiotic association on the diversity growth and chemical components of the medicinal and herbal plants Elaborates opportunities and future challenges regarding the understanding of symbiotic association between microbes and medicinal plants A volume in the Exploring Medicinal Plants series this book provides exciting information in a structured manner for scientists researchers and students working in various fields including medicinal plants microbiology economic botany chemistry biotechnology pharmacognosy and pharmaceuticals Plant Endophytes and Secondary Metabolites Difuza Egamberdieva,Javid A. Parray,Kakhramon

Davranov,2023-10-22 Plant Endophytes and Secondary Metabolites provides the latest insights into the essential roles of these beneficial elements in plant growth development stress tolerance and plant protection from soil borne disease The book provides a comprehensive guide addressing the usefulness and utility of endophytes towards enhancing plant tolerance to abiotic or biotic stress It identifies biomolecules with unique molecular architectures novel enzymes of industrial importance and explores the ecology and community structure of endophytes associated with host plants and their potential Plant Endophytes and Secondary Metabolites provides insights into the endophytic microbiomes that are associated with diverse environments and includes case studies and nano techniques for exploring endophytic potential The book addresses the needs of researchers and advanced level students in agriculture plant sciences and biochemistry seeking to understand plant and soil microbiome sustainable ecosystem services Covers all characteristic features of endophytes Considers all aspects surrounding the role of endophytes for ameliorating biotic and abiotic stress Explores potential usage of endophytes for industrial applications from variable resources Presents the scope and importance of endophytic nanotechnology

Advances in Endophytic Research Vijay C. Verma,Alan C. Gange,2013-11-12 In recent years there has been significant attention paid on the endophytic research by various groups working within this domain Mutualistic endophytic microbes

with an emphasis on the relatively understudied fungal endophytes are the focus of this special book. Plants are associated with micro organisms endophytic bacteria and fungi which live inter and intra cellularly without inducing pathogenic symptoms but have active biochemical and genetic interactions with their host. Endophytes play vital roles as plant growth promoters, biocontrol agents, biosurfactant producers, enzymes, and secondary metabolite producers, as well as providing a new hidden repertoire of bioactive natural products with uses in pharmaceutical, agrochemical, and other biotechnological applications. The increasing interest in endophytic research generates significant progress in our understanding of the host endophyte relationship at molecular and genetic level. The bio prospection of microbial endophytes has led to exciting possibilities for their biotechnological application as biocontrol agent, bioactive metabolites, and other useful traits. Apart from these virtues, the microbial endophytes may be adapted to the complex metabolism of many desired molecules that can be of significant industrial applications. These microbes can be a useful alternative for sustainable solutions for ecological control of pests and diseases and can reduce the burden of excess of chemical fertilizers for this purpose. This book is an attempt to review the recent development in the understanding of microbial endophytes and their potential biotechnological applications. This is a collection of literature authored by noted researchers having signatory status in endophytic research and summarizes the development achieved so far and future prospects for further research in this fascinating area of research.

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